

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Front Matter

Issue Date: May-1930

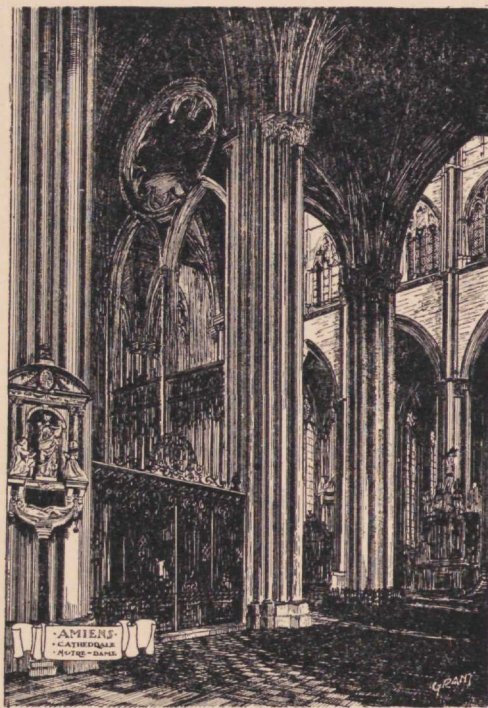
Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 13, no. 7 (May, 1930), 1-5.

URI: <http://hdl.handle.net/1811/34696>

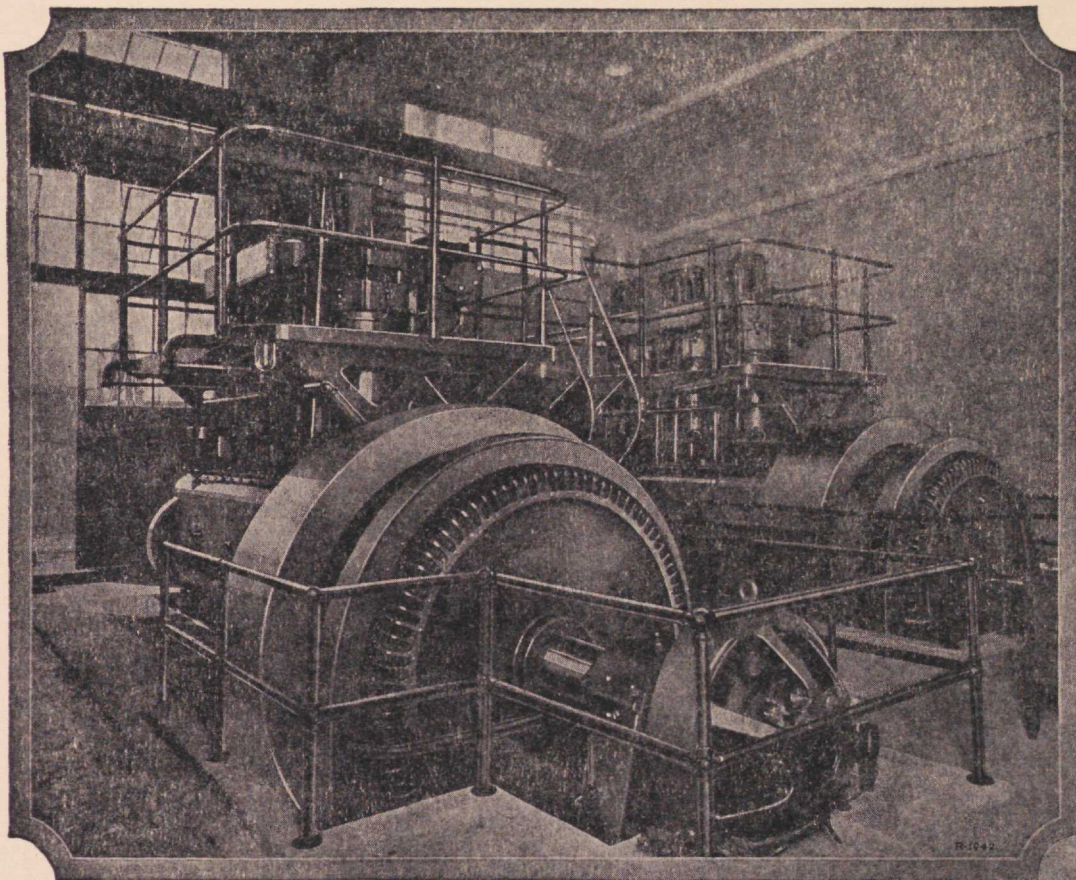
Appears in Collections: [Ohio State Engineer: Volume 13, no. 7 \(May, 1930\)](#)

The Ohio State Engineer



MAY 1930

MEMBER OF ENGINEERING COLLEGE MAGAZINES ASSOCIATED



*Two I-R Multi-Cylinder Diesel Engines
direct-connected to generators.*



I-R Diesels Furnish Economical Power



The Ingersoll-Rand solid-injection Diesel engine is one of the most economical of all prime movers. Because of this feature, as well as its proven reliability, it has been adopted by many of the country's foremost industrial plants. One of these plants, a unit of the Detroit City Service

Company, is pictured above.

The excellence of Ingersoll-Rand engines has been recognized in Europe, where the firm of Carels Frères have obtained a license to manufacture I-R oil engines. The Ingersoll-Rand engine was the first of American development to be so licensed in Europe.

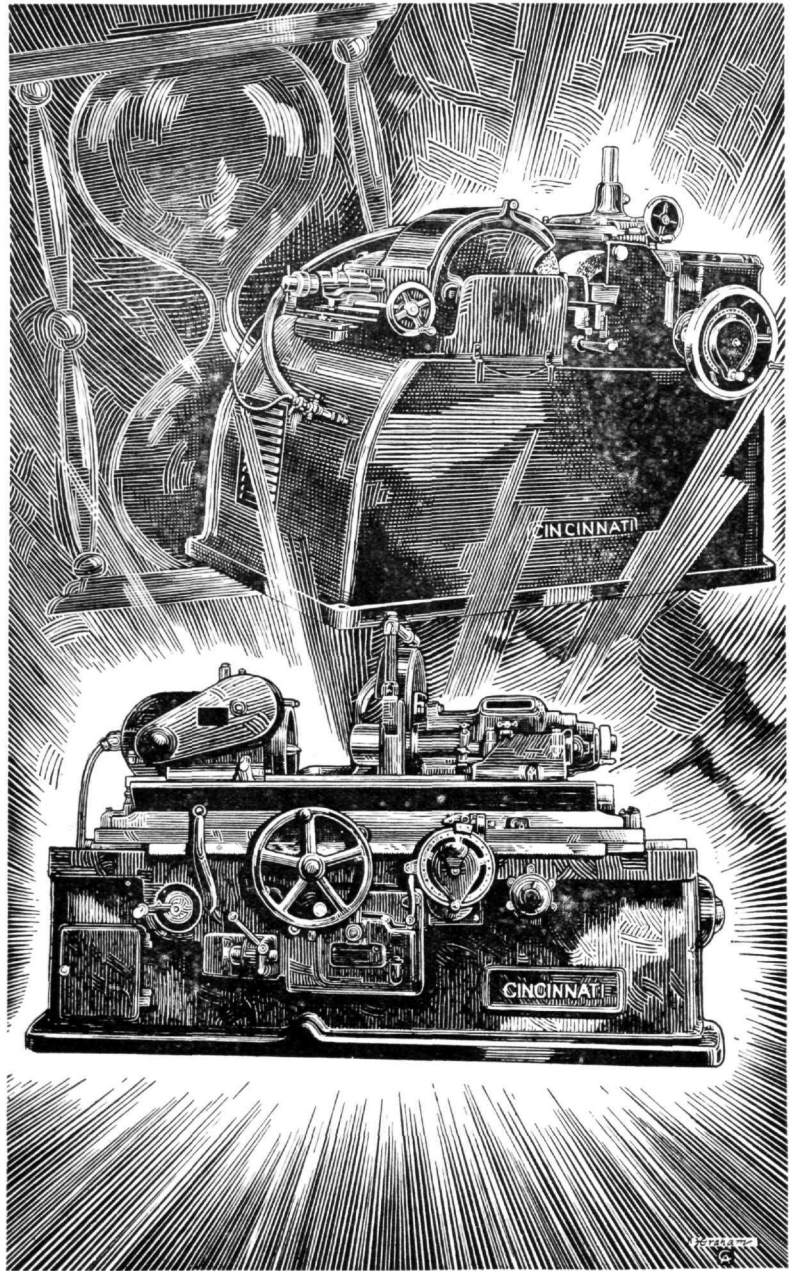
INGERSOLL-RAND CO. • 11 Broadway • New York City

Branches or distributors in principal cities the world over

For Canada refer—Canadian Ingersoll-Rand Co., Limited, 10 Phillips Square, Montreal, Quebec

Ingersoll-Rand

The Result of Specialized Development

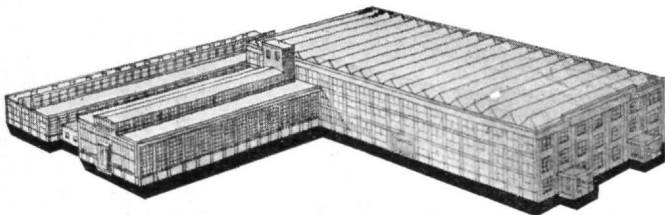


By specializing on the design and manufacture of precision centerless and centertype grinding machines, Cincinnati Grinders Incorporated, an associate organization of The Cincinnati Milling Machine Company, has risen to the leadership in the cylindrical grinding machine field.

Located in Cincinnati, the machine tool manufacturing center of the world, the plant which produces these cylindrical grinders for all industries is recognized as one of the most modern machine tool factories in the world.

We invite you to visit our plant and inspect the precision workmanship which is a keynote in Cincinnati Grinder construction.

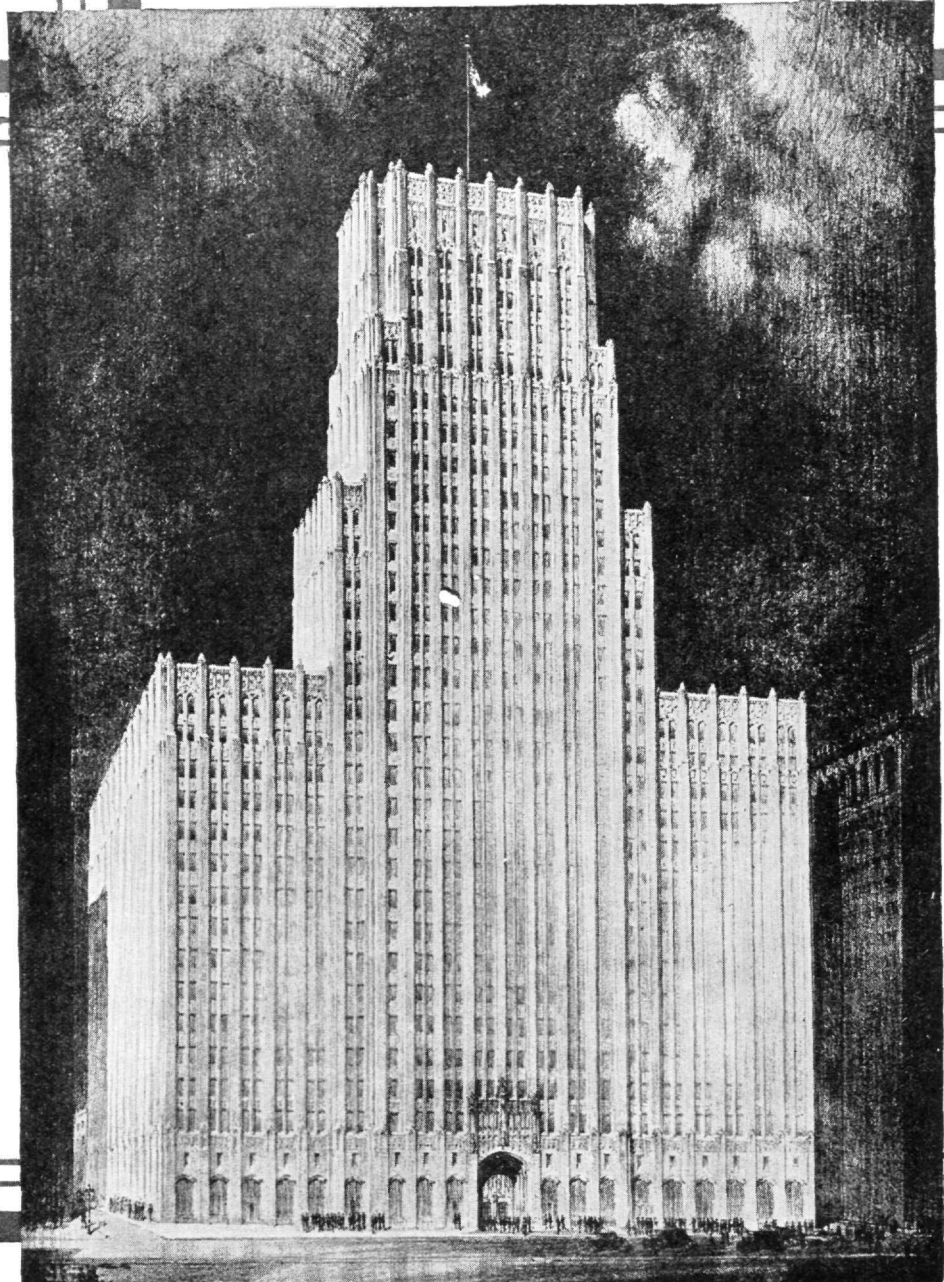
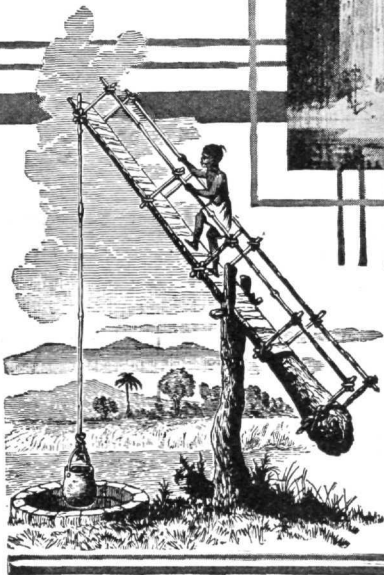
*Plan to visit our
plant when you are
in Cincinnati*



Cincinnati Grinders, Inc.
Cincinnati, Ohio



One of the early phases
of Vertical Transportation.



Russ Building, San Francisco, Cal. Geo. H. Kelham, Architect
Equipped with Otis Signal Control Elevators

Since the Days of '71

San Francisco has grown into a great metropolis since 1871, when its first elevator was installed in a photograph gallery on Montgomery Street . . . Otis Elevators have been an important factor in this expansion because the development of the modern city of tall buildings was made possible by the safe, high-speed elevator . . . The world's first safe elevator was an "Otis."

OTIS ELEVATOR COMPANY
OFFICES THROUGHOUT THE WORLD

THE OHIO STATE ENGINEER

Published in October, November, January, February, March, April, and May by the students in the
College of Engineering, Ohio State University

Vol. XIII

MAY, 1930

No. 7

CONTENTS

COVER DESIGN—By RICHARD R. GRANT.....	Cover
PROGRAM, ENGINEERS' DAY.....	5
NATURAL GAS AND ITS PRODUCTION—By WM. E. BURROUGHS, C. E. 3.....	6
THE CH. E.'S GO INSPECTING—By W. D. SHEETS, CH. E. 4.....	4
THE AMAZING GENIUS—By ELDON G. CONSTANCE, CER. E. 1.....	8
LEARNING TO FLY AT PORT COLUMBUS—By ROBERT M. EWING, M. E. 2.....	10
HUMAN RELATIONS—By RAMON WYER, I. E. 3.....	11
THE ENGINEER AND CIVILIZATION—By CARL F. BAYER, E. E. 4.....	11
THE LOG PIPE WATER SYSTEM—By W. B. STOCKTON, C. E. 3.....	12
TELEVISION—By STANLEY P. JAY, E. E. 4, AND C. N. LOWENSTEIN, ex'29.....	13
EDITORIALS.....	14
KEEPING UP WITH AVIATION—By ROBERT M. EWING, M. E. 2.....	15
CAMPUS NOTES.....	16
CRANKS AND COUNTERSHAFTS.....	18
ENGINEERING ABSTRACTS.....	19

Subscription price, \$1.00 per year, 20c per copy. 7 issues per year. Checks, money orders, etc., payable, to The Ohio State Engineer.

Entered as second-class matter May 15, 1922, at the post office at Columbus, Ohio, under the act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917. Authorized December 8, 1922.

MEMBERS OF THE ENGINEERING COLLEGE MAGAZINES ASSOCIATED

Chairman: Willard V. Merrihue, 1 River Road, Schenectady, New York

The Transit
Iowa Engineer
Colorado Engineer
Nebraska Blue Print
Sibley Journal of Engineering
Rose Technic
Michigan Technic
The Ohio State Engineer
Penn State Engineer
Minnesota Techno-Log
Armour Institute Engineer

Wisconsin Engineer
Tech Engineering News
Cornell Civil Engineer
Kansas State Engineer
Princeton E. A. News Letter
The Technograph
Pennsylvania Triangle
Kansas Engineer
Oregon State Technical Record
The Purdue Engineer
The Auburn Engineer
The Marquette Engineer

WHAT YOUNGER COLLEGE MEN ARE DOING WITH WESTINGHOUSE

Equipping A Cathedral of Learning for the University of Pittsburgh

Nine years ago the University of Pittsburgh, then a hundred and thirty-six years old, faced an urgent need for larger quarters. To extend its restricted campus was almost out of the question, for a city had built up around it. The logical direction for expansion was into the air.

American business had long before faced the same situation, and met it with the skyscraper. But no conventional business

building would satisfy here. Chancellor John Gabbert Bowman envisioned a Cathedral of Learning, an edifice that would express the essential self of the steel center of the world, a structure with more power, more spirit of achievement and reverence in it than had ever before been attempted. A great architect put his soul into the making of the plans. Leading suppliers were called on for the materials for the realization of Chancellor Bowman's dream.

To Westinghouse engineers came the assignment of providing the electrical and elevator equipment for this great structure. Recognized as a great clearing house for electrical development, the Westinghouse organization draws interesting assignments in every field of human activity.



H. O. KOEHLER
University of Illinois, '22
Application Engineer



H. J. PETERSON
University of
Washington, '26
Control Engineer



E. N. BALDWIN
Purdue University, '22
Engineer of Mechanical
Design



R. A. GAUT
Pennsylvania State
College, '25
Field Engineer



C. F. CARNEY
University of California, '26
Control Engineer

Westinghouse



ENGINEERS' DAY

MAY 16, 1930

SPONSORED BY
ENGINEERS' COUNCIL

PROGRAM

EXHIBITS, 10 A. M. TO 6 P. M.

ARCHITECTURE	Basement and first floor of west wing, Brown Hall
CERAMICS	Laboratories and museum, Lord Hall
CHEMICAL ENGINEERING	Chemistry Building and Laboratory
CIVIL ENGINEERING	First floor of east wing, Brown Hall Special Broadcasting over WEAO, 4:00 to 4:30 P. M. Testing Laboratory, Engineering Experiment Station
ELECTRICAL ENGINEERING	North wing, Robinson Laboratory Special Tests, 2:30 to 3:00 P. M. "Open House" Thursday evening
ENGINEERING DRAWING	Second floor of west wing, Brown Hall
INDUSTRIAL LABORATORY	Laboratories and Shops, Industrial Engineering Building This department will also have "open house" on Thursday evening
MECHANICAL ENGINEERING	South wing of Robinson Laboratory
METALLURGY, MINERALOGY AND MINING ENGINEERING	Laboratories, Lord Hall
PHYSICS	Mendenhall Laboratory

PARADE, 4:30 P. M.

The following organizations will be featured in the parade around the oval and northern section of campus:

Ohio State University Band, Ceramic, Chemical, Electrical, Industrial, Mechanical, Metallurgical, and Mining Engineering Departments, *The Ohio State Engineer*, Freshmen Engineers, and Tau Beta Pi Fraternity.

ENGINEERS' DANCE, 9 P. M. TO 1 A. M., POMERENE HALL

Music by Allan Hale's Orchestra.

During the dance Texnikoi, senior honorary engineering fraternity, will hold its "linking" ceremonies.

JUDGES

PARADE FLOATS: Professors Ronan, McManigal, and Harbarger

INDOOR EXHIBITS: Professors Ott and Russ, Mr. J. M. Weed